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    File 652:US Patents Fulltext 1971-1979
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  *File 652: Reassignment data current through 12/06/1999 recordings.
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                  Description
                  (SALMONELLA? OR HELICOBACTER? OR PYLORI OR PYLORIDIS OR PY-
  S1
           169
               LORIS OR PYLOR)/TI
                 ATTENUAT? OR MUTANT? OR AVIRULENT? OR AROA OR GUAA OR GUA -
  S2
         110957
               OR RECA
  S3
             57
                 S1 AND S2
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                  S3 AND (HELICOBACTER? OR PYLROI OR PYLOR OR PYLORIDIS OR P-
               YLORIS OR PYLORI)
 S5
                 S4 AND (SALMONELLA? OR TYPHI OR TYPHIMURIUM?)
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                15 S5
             84863 THERAPEU?
            53507
                   THERAPY?
           1317854 PREVENT?
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S5 AND (THERAPEU? OR THERAPY? OR PREVENT? OR VACCIN? OR

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13409 VACCIN? 14540 IMMUNIZ?

IMMUNIZ?)

METHOD FOR INTRODUCING AND EXPRESSING GENES IN ANIMAL INVASIVE BACTERIAL VECTORS FOR USE IN THE SAME

PATENT NO.: 5,877,159

ISSUED: March 02, 1999 (19990302)

INVENTOR(s): Powell, Robert J., Baltimore, MD (Maryland), US (United States

of America)

Lewis, George K., Baltimore, MD (Maryland), US (United States

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Hone, David M., Ellicott City, MD (Maryland), US (United

States of America)

ASSIGNEE(s): University of Maryland at Baltimore, (A U.S. Company or

Corporation), Baltimore, MD (Maryland), US (United States of

America)

[Assignee Code(s): 52744]

APPL. NO.: 8-433,790

FILED: May 03, 1995 (19950503)

The invention described herein was supported by funding from the National Institutes of Health (NIH 5-RO1-AI32879). The Government has certain rights.

The development of this invention was supported by the University of Maryland, Baltimore, Md.

FULL TEXT: 1513 lines

...which can be employed in the present invention include H. mustelae (ATCC No. 43772). Attenuated Helicobacter strains are preferably used in the present invention, and can be constructed by introducing one...include S. typhi aroAaroD (Hone et al, Vacc., 9:810-816 (1991)) and S. typhimurium mutant (Mastroeni et al, Micro. Pathol., 13:477-491 (1992))). Alternatively, new attenuated Salmonella strains...

. e: CLONING, SEQUENCING, EXPRESSION, PURIFICATION AND PRELIMINA CHARACTERIZATION OF A TYPE-II DEHYDROQUINASE FROM HELICOBACTER-PYLORI Author(s): BOTTOMLEY JR; CLAYTON CL; CHALK PA; KLEANTHOUS C

Corporate Source: UNIV E ANGLIA, SCH BIOL SCI/NORWICH NR4 7TJ/NORFOLK/ENGLAND/; UNIV E ANGLIA, SCH BIOL SCI/NORWICH NR4

7TJ/NORFOLK/ENGLAND/; GLAXO WELLCOME RES & DEV LTD, MED RES CTR/STEVENAGE SG1 2NY/HERTS/ENGLAND/

Journal: BIOCHEMICAL JOURNAL, 1996, V319, OCT (OCT 15), P559-565

ISSN: 0264-6021

Language: ENGLISH Document Type: ARTICLE

Geographic Location: ENGLAND

Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY

Abstract: A heat-stable dehydroquinase was purified to near homogeneity from a plate-grown suspension of the Gram-negative stomach pathogen Helicobacter pylori, and shown from both its subunit and native molecular masses to be a member of the type II family of dehydroquinases. This was confirmed by N-terminal amino acid sequence data. The gene encoding this activity was isolated following initial identification, by random sequencing of the H. pylori genome, of a 96 bp fragment, the translated sequence of which showed strong identity to a C-terminal region of other type II enzymes. Southern blot analysis of a cosmid library identified several potential clones, one of which complemented an Escherichia coli aroD point mutant strain deficient in host dehydroquinase. The gene encoding the H. pylori type II dehydroquinase (designated aroQ) was sequenced. The translated sequence was identical to the N-terminal sequence obtained directly from the purified protein, and showed strong identity to other members of the type II family of dehydroquinases. The enzyme was readily expressed in E. coli from a plasmid construct from which several milligrams of protein could be isolated, and the molecular mass of the protein was confirmed by electrospray MS. The aroQ gene in H. pylori may function in the central biosynthetic shikimate pathway of this bacterium, thus opening the way for the construction of attenuated strains as potential vaccines as well as offering a new target for selective enzyme inhibition.

Identifiers--KeyWords Plus: AMINO-ACID BIOSYNTH

OPTIMIZED BLAM-TRANSPOSON SHUTTLE MUTAGENESIS OF HELICOBACTER LORI ALLOWS THE IDENTIFICATION OF NOVEL GENETIC-LOCI INVOLVED IN BACTERIAL VIRULENCE

Author(s): ODENBREIT S; TILL M; HAAS R

Corporate Source: MAX PLANCK INST BIOL, INFEKT BIOL ABT, SPEMANNSTR34/D-72076 TUBINGEN//GERMANY/; MAX PLANCK INST BIOL, INFEKT BIOL ABT/D-72076 TUBINGEN//GERMANY/

Journal: MOLECULAR MICROBIOLOGY, 1996, V20, N2 (APR), P361-373

ISSN: 0950-382X

Language: ENGLISH Document Type: ARTICLE

Geographic Location: GERMANY

Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences

Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY; MICROBIOLOGY Abstract: Helicobacter Pulori is an investment of the property of the

Abstract: Helicobacter pylori is an important etiologic agent of gastroduodenal disease in humans, In this report, we describe a general genetic approach for the identification of genes encoding exported proteins in H. pylori. The novel TnMax9 mini-blaM transposon was used for insertion mutagenesis of a H. pylori gene library established in Escherichia coli, A total of 192 E. coli clones expressing active p-lactamase fusion proteins (BlaM(+)) were obtained, indicating that the corresponding target plasmids carry H. pylori genes encoding putative extracytoplasmic proteins. Natural transformation of H. pylori P1 or P12 using the 192 mutant plasmids resulted in 135 distinct H. pylori mutant strains (70%), Screening of the H. pylori collection of mutant strains allowed the identification of mutant strains impaired in motility, in natural transformation competence and in adherence to gastric epithelial cell lines. Motility mutants could be grouped into distinct classes: (i) mutant strains lacking the major flagellin subunit FlaA and intact flagella (class I); (ii) mutant strains with apparently normal flagella, but reduced motility (class II), and (iii) mutant strains with obviously normal flagella, but completely abolished motility (class III), Two independent mutations that exhibited defects in natural competence for genetic transformation mapped to different genetic loci. In addition, two independent mutant strains were isolated by their failure to bind to the human gastric carcinoma cell line

Katolll. Both mutant strains carried a transposon in the same gene, $0.8\,$ kb apart, and showed decreased autoagglutination when compared to the

wild-type strain.
Identifiers--KeyWords Plus: HUMAN GASTRIC EPITHELIUM; DUOD

1 5) 284,233 5: updated SYSTEM:OS - DIALOG OneSearch File 654:US Pat.Full. 1990-2000/Jul 04 (c) format only 2000 The Dialog Corp. *File 654: Reassignment data current through 12/06/1999 recordings. Due to recent processing problems, the SORT command is not working. File 349: PCT Fulltext 1983-2000/UB=, UT=20000525 (c) 2000 WIPO/MicroPatent File 348: European Patents 1978-2000/Jun W03 (c) 2000 European Patent Office *File 348: ** NEW FEATURE ** English language translations of French and German abstracts now searchable. See HELP NEWS 348 for inf... File 34:SciSearch(R) Cited Ref Sci 1990-2000/Jul W1 (c) 2000 Inst for Sci Info File 440:Current Contents Search(R) 1990-2000/Jul W3 (c) 2000 Inst for Sci Info Set Items Description ----Executing TD059 >>>SET HILIGHT: use ON, OFF, or 1-5 characters 1365 AROA 34853 HELICOB? 36246 PYLORI 77 PYLOR 894 PYLORIDIS 42 PYLORIS 44 HPYLORI S111 AROA (100N) (HELICOB? OR PYLORI OR PYLOR OR PYLORIDIS OR PYLORIS OR HPYLORI) ?rd >>>Duplicate detection is not supported for File 654. >>>Duplicate detection is not supported for File 349. >>>Duplicate detection is not supported for File 348. >>>Records from unsupported files will be retained in the RD set. >>>Record 440:11686179 ignored; incomplete bibliographic data, not retained in RD set ...completed examining records S2 10 RD (unique items) ?t s2/6,kwic/all 2/6,KWIC/1 (Item 1 from file: 654)

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03050937

METHOD OF MAKING NON-PYROGENIC LIPOPOLYSACCHARIDE OR A FULL TEXT: 2156 lines

... can be employed in the present invention include P. aeruginosa (ATCC No. 23267 .

The particular Helicobacter strain employed is not critical to the present invention. Examples of Helicobacter strains which can be employed in the present invention include H. pylori (ATCC No. 43504), H. mustelae (ATCC No. 43772).

The particular Salmonella ... 6994). S. typhi aroC, aroD (Hone et al, Vacc., 9:810-816 (1991)), S. typhimurium aroA mutant (Mastroeni et al, Micro. Pathol., 13:477-491 (1992)).

The particular Vibrio strain employed...

2/6,KWIC/2 (Item 2 from file: 654) DIALOG(R) File 654:(c) format only 2000 The Dialog Corp. All rts. reserv.

02919058

METHOD FOR INTRODUCING AND EXPRESSING GENES IN ANIMAL CELLS AND LIVE INVASIVE BACTERIAL VECTORS FOR USE IN THE SAME FULL TEXT: 1513 lines

(Item 1 from file: 34) DIALOG(R) File 34:SciSearch(R) Cited Ref Sci (c) 2000 Inst for Sci Info. All rts. reserv. 05290777 Genuine Article#: VN238 Number of References: 49 Title: CLONING, SEQUENCING, EXPRESSION, PURIFICATION AND PRELIMINARY CHARACTERIZATION OF A TYPE-II DEHYDROQUINASE FROM HELICOBACTER-PYLORI Author(s): BOTTOMLEY JR; CLAYTON CL; CHALK PA; KLEANTHOUS C Corporate Source: UNIV E ANGLIA, SCH BIOL SCI/NORWICH NR4 7TJ/NORFOLK/ENGLAND/; UNIV E ANGLIA, SCH BIOL SCI/NORWICH NR4 7TJ/NORFOLK/ENGLAND/; GLAXO WELLCOME RES & DEV LTD, MED RES CTR/STEVENAGE SG1 2NY/HERTS/ENGLAND/ Journal: BIOCHEMICAL JOURNAL, 1996, V319, OCT (OCT 15), P559-565 ISSN: 0264-6021 Document Type: ARTICLE Language: ENGLISH Geographic Location: ENGLAND Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY Abstract: A heat-stable dehydroquinase was purified to near homogeneity from a plate-grown suspension of the Gram-negative stomach pathogen Helicobacter pylori, and shown from both its subunit and native molecular masses to be a member of the type II family of dehydroquinases. This was confirmed by N-terminal amino acid sequence data. The gene encoding this activity was isolated following initial identification, by random sequencing of the H. pylori genome, of a 96 bp fragment, the translated sequence of which showed strong identity to a C-terminal region of other type II enzymes. Southern blot analysis of a cosmid library identified several potential clones, one of which complemented an Escherichia coli aroD point mutant strain deficient in host dehydroquinase. The gene encoding the H. pylori type II dehydroquinase (designated aroQ) was sequenced. The translated sequence was identical to the N-terminal sequence obtained directly from the purified protein, and showed strong identity to other members of the type II family of dehydroquinases. The enzyme was readily empressed in E. coli from a plasmid construct from which several milligrams of protein could be isolated, and the molecular mass of the protein was confirmed by electrospray MS. The aroQ gene in H. pylori may function in the central biosynthetic shikimate pathway of this bacterium, thus opening the way for the construction of attenuated strains as potential vaccines as well as offering a new target for selective enzyme inhibition. Identifiers--KeyWords Plus: AMINO-ACID BIOSYNTHESIS; ESCHERICHIA-COLI; ASPERGILLUS-NIDULANS; SHIKIMATE PATHWAY; SALMONELLA-TYPHI; ACTIVE-SITE; CAMPYLOBACTER-PYLORI; NUCLEOTIDE-SEQUENCE; NEUROSPORA-CRASSA; MOLECULAR-CLONING Research Fronts: 94-1492 001 (HELICOBACTER -PYLORI INFECTION; IMPLICATIONS FOR ULCER THERAPY; ACID-PEPTIC DISEASE) (ESCHERICHIA-COLI RNA-POLYMERASE; LACUV5 PROMOTER; TRANSCRIPTION INITIATION; EXPRESSION ANALYSIS) (LIVE ATTENUATED AROA SALMONELLA VACCINE; INVASION OF 94-6609 001 EPITHELIAL-CELLS; VIRULENCE PHENOTYPE; STARVATION SURVIVAL GENES; DEFINED OMPR MUTANTS) Cited References: BENSING BA, 1993, V175, P7421, J BACTERIOL BENTLEY R, 1990, V25, P307, CRIT REV BIOCHEM MOL BONNER CA, 1994, V302, P11, BIOCHEM J BOTTOMLEY JR, 1996, V319, P269, BIOCHEM J BOTTOMLEY JR, 1995, THESIS U E ANGLIA NO

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2/9/9 (Item 2 from file: 34) DIALOG(R)File 34:SciSearch(R) Cited Ref Sci (c) 2000 Inst for Sci Info. All rts. reserv.

04806524 Genuine Article#: UJ557 Number of References: 45

Title: OPTIMIZED BLAM-TRANSPOSON SHUTTLE MUTAGENESIS OF HELICOBACTER-PYLORI
ALLOWS THE IDENTIFICATION OF NOVEL GENETIC-LOCI INVOLVED IN BACTERIAL
VIRULENCE

Author(s): ODENBREIT S; TILL M; HAAS R

Corporate Source: MAX PLANCK INST BIOL, INFEKT BIOL ABT, SPEMANNSTR34/D-72076 TUBINGEN//GERMANY/; MAX PLANCK INST BIOL, INFEKT BIOL ABT/D-72076 TUBINGEN//GERMANY/

Journal: MOLECULAR MICROBIOLOGY, 1996, V20, N2 (APR), P361-373

ISSN: 0950-382X

Language: ENGLISH Document Type: ARTICLE

Geographic Location: GERMANY

Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences

Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY; MICROBIOLOGY

Abstract: Helicobacter pylori is an important etiologic agent of gastroduodenal disease in humans, In this report, we describe a general genetic approach for the identification of genes encoding exported proteins in H. pylori. The novel TnMax9 mini-blaM transposon was used for insertion mutagenesis of a H. pylori gene library established in Escherichia coli, A total of 192 E. coli clones expressing active p-lactamase fusion proteins (BlaM(+)) were obtained, indicating that the corresponding target plasmids carry H. pylori genes encoding putative extracytoplasmic proteins. Natural transformation of H. pylori P1 or P12 using the 192 mutant plasmids resulted in 135 distinct H. pylori mutant strains (70-), Screening of the H. pylori collection of mutant strains allowed the identification of mutant strains impaired in

motility, in natural transformation competence and in adherence to gastric epithelial cell lines. Motility mutants could be grouped into distinct classes: (i) mutant strains lacking the major flagellin subunit FlaA and intact flagella (class I); (ii) mutant strains with apparently normal flagella, but reduced motility (class II), and (iii) mutant strains with obviously normal flagella, but completely abolished motility (class III), Two independent mutations that exhibited defects in natural competence for genetic transformation mapped to different genetic loci. In addition, two independent mutant strains were isolated by their failure to bind to the human gastric carcinoma cell line Katolll. Both mutant strains carried a transposon in the same gene, 0.8 kb apart, and showed decreased autoagglutination when compared to the wild-type strain.

Identifiers--KeyWords Plus: HUMAN GASTRIC EPITHELIUM; DUODENAL-ULCER; TNPHOA MUTANTS; CLONING; INFECTION; PROTEINS; DNA; TRANSFORMATION; CONSTRUCTION; COLONIZATION

Research Fronts: 94-4806 003 (GENE ORGANIZATION; LONG-CHAIN FATTY-ACID TRANSPORT; TRANSCRIPTION FACTOR)

94-1492 002 (HELICOBACTER -PYLORI INFECTION; IMPLICATIONS FOR ULCER THERAPY; ACID-PEPTIC DISEASE)

94-3070 001 (RAT SKELETAL-MUSCLE; DEVELOPMENTAL REGULATION; YEAST SACCHAROMYCES-CEREVISIAE)

94-7725 001 (VIBRIO-CHOLERAE 01; REGULATORY GENE; GENETICALLY DEFINED SALMONELLA-ENTERITIDIS AROA STRAIN; YOP SECRETION; INNER MEMBRANE-PROTEIN; TOXR REGULON)

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            (Item 3 from file: 34)
DIALOG(R) File 34: SciSearch(R) Cited Ref Sci
(c) 2000 Inst for Sci Info. All rts. reserv.
          Genuine Article#: QF435
                                     Number of References: 116
03782168
Title: VACCINATION IN EUROPEAN SALMONID AQUACULTURE - A REVIEW OF PRACTICES
   AND PROSPECTS
Author(s): PRESS CM; LILLEHAUG A
Corporate Source: NORWEGIAN COLL VET MED, DEPT MORPHOL GENET & AQUAT
    BIOL, BOX 8146 DEPT/N-0033 OSLO//NORWAY/; CENT VET LAB, DEPT
    IMMUNOPROPHYLAXIS/OSLO//NORWAY/
Journal: BRITISH VETERINARY JOURNAL, 1995, V151, N1 (JAN-FEB), £45-69 ·
ISSN: 0007-1935
Language: ENGLISH
                   Document Type: ARTICLE
Geographic Location: NORWAY
Subfile: SciSearch; CC AGRI--Current Contents, Agriculture, Biology &
    Environmental Sciences
Journal Subject Category: VETERINARY SCIENCES
Abstract: Disease control by vaccination is widely used in European
    salmonid aqua-culture against vibriosis (Vibrio anguillarum;,
    cold-water vibrosis (Vibrio salmonicida), yersiniosis or enteric.
    redmouth disease (Yersinia ruckeri) and furunculosis (Aeromonas
  salmonicida subsp. salmonicida). The vaccines against the Vibrio spp.
    and Y. ruckeri have proven effective especially when administered by
    injection. Furunculosis vaccines have been less successful and have
    relied on combination with potent adjuvants to achieve acceptable
    protection. Application of modern molecular techniques to furunculosis
    research has delivered a crop of experimental vaccines that incorporate
    purified virulence factors and have shown increased protection during
    challenge. Gene technology has also been used to create a defined,
    non-reverting mutation in a strain of A. salmonicida, which has
    enhanced the feasibility of attenuated live vaccines. The development
    of experimental subunit vaccines against the viral infections and the
    continued advances in the field of immunostimulants, adjuvants and
    antigen carriers provide considerable promise for the future
    development of commercial vaccines for use in salmonid aquaculture.
Descriptors -- Author Keywords: SALMONIDS ; AQUACULTURE ; VACCINATION ;
    VIBRIOSIS ; GERSINIOSIS ; FURUNCULOSIS
Identifiers--KeyWords Plus: TROUT ONCORHYNCHUS-MYKISS; CARP
    CYPRINUS-CARPIO; PATHOGEN RENIBACTERIUM-SALMONINARUM;
    VIBRIO-ANGUILLARUM BACTERIN; YERSINIA-RUCKERI BACTERINS; PANCREATIC
    NECROSIS VIRUS; MAJOR SOLUBLE-ANTIGEN; ATLANTIC SALMON;
    AEROMONAS-SALMONICIDA; RAINBOW-TROUT
                               (HEN EGG-WHITE LYSOZYME; RESORCINOL CYCLIC
Research Fronts: 93-1036 001
    TETRAMER; ERYTHRINA-CORALLODENDRON LECTIN; HOST GUEST COMPLEXATION;
    MOLECULAR RECOGNITION OF SUGARS)
                (VIBRIO-ANGUILLARUM STRAINS; IN-VITRO SUSCEPTIBILITY;
   HELICOBACTER -PYLORI INFECTION; TURBOT AQUAREOVIRUS)
  93-4240 001 (LIVE ATTENUATED AROA SALMONELLA VACCINES; ORAL
    VACCINATION; TEMPERATURE-SENSITIVE MUTANTS)
               (HAEMONCHUS-CONTORTUS GUT MEMBRANE-PROTEINS; VACCINATION OF
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BLY JE, 1992, V2, P159, FISH SHELLFISH IMMUN

BOGWALD J, 1990, V13, P293, J FISH DIS BRUNO DW, 1986, V1, P163, DISEASE AQUAT ORG CAMPBELL CM, 1990, V13, P463, J FISH DIS CHEVASSUS B, 1990, V85, P83, AQUACULTURE CHIEN MS, 1992, V96, P259, FEMS MICROBIOL LETT CHU S, 1991, V266, P5258, J BIOL CHEM COLEMAN G, 1992, V21, S49, BIOCHEM SOC T DAVIDSON GA, 1993, V17, P373, DEV COMP IMMUNOL DAVIES RL, 1990, V22, P299, VET MICROBIOL DEKINKELIN P, 1988, P172, FISH VACCINATION DORSON M, 1988, P162, FISH VACCINATION DUFF DCB, 1942, V44, P87, J IMMUNOL EGIDIUS E, 1986, V36, P518, INT J SYST BACTERIOL ELLIS AE, 1988, P255, FISH VACCINATION ELLIS AE, 1991, V14, P265, J FISH DIS ELLSAESSER CF, 1986, V28, P511, J FISH BIOL EVANS DL, 1992, V2, P109, ANN REV FISH DIS EVENDEN AJ, 1993, V3, P87, ANN REV FISH DISEASE EVENDEN AJ, 1990, V71, P31, FEMS MICROBIOL LETT FEVOLDEN SE, 1993, V109, P215, AQUACULTURE FJALESTAD KT, 1993, V111, P65, AQUACULTURE FURONES MD, 1993, V3, P105, ANN REV FISH DISEASE GEORGOPOULOU U, 1986, V10, P529, DEV COMP IMMUNOL GJEDREM T, 1991, V97, P1, AQUACULTURE GOULD RW, 1978, VI3, P63, FISH PATHOL GRIFFITHS SG, 1991, V14, P55, J FISH DIS GRIMHOLT U, 1993, V37, P469, IMMUNOGENETICS HART S, 1988, V12, P453, DEV COMP IMMUNOL HASTEIN T, 1986, V6, P45, B EUR ASS FISH PATHO HASTINGS TS, 1988, P93, FISH VACCINATION HJELTINES B, 1993, P109, BACTERIAL DISEASES F HJELTNES B, 1989, V83, P1, AQUACULTURE HOISETH SK, 1981, V291, P238, NATURE HORDVIK I, 1993, V37, P437, IMMUNOGENETICS HORNE MT, 1987, V18, P131, AQUACULTURE FISHERIE INGRAM GA, 1980, V16, P23, J FISH BIOL JENEY G, 1993, V3, P51, FISH SHELLFISH IMMUN JENKINS PG, 1992, V2, P193, FISH SHELLFISH IMMUN JOHNSON KA, 1982, V5, P207, J FISH DIS JOHNSON KA, 1982, V5, P197, J FISH DIS JOHNSON KA, 1983, V6, P331, J FISH DIS JOHNSON KA, 1983, V6, P473, J FISH DIS KAATTARI SL, 1992, V2, P161, ANN REV FISH DIS KAWAI K, 1983, V49, P511, B JPN SOC SCI FISH KAY WW, 1991, V47, P412, EXPERIENTIA KNOTT RM, 1986, V12, P359, VET IMMUNOL IMMUNOP KODAMA H, 1993, V17, P129, DEV COMP IMMUNOL LAMERS CHJ, 1985, P256, REACTION REACTION IM LEIRA HL, 1993, V113, P1563, TIDSKRIFT NORSKE LAE LEONG JC, 1993, V3, P225, ANN REV FISH DISEASE LILLEHAUG A, 1989, V83, P217, AQUACULTURE LILLEHAUG A, 1989, V83, P217, AQUACULTURE
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LILLEHAUG A, 1992, V15, P485, J FISH DIS LUND V, 1991, V14, P443, J FISH DIS MACLEAN N, 1990, V85, P1, AQUACULTURE MANNING MJ, 1982, V2, P75, DEV COMP IMMUNOL S MAULE AG, 1987, V44, P161, CAN J FISH AQUAT SCI MUNRO ALS, 1993, P122, BACTERIAL DISEASES F MUNRO ALS, 1988, P124, FISH VACCINATION MYHR E, 1991, V57, P2750, APPL ENVIRON MICROB NEWMAN SG, 1993, V3, P145, ANN REV FISH DISEASE NIKI L, 1991, V12, P7, DISEASES AQUATIC ORG NILSEN H, 1992, V15, P323, J FISH DIS OLIVIER G, 1985, V8, P43, J FISH DIS OLIVIER G, 1992, V15, P229, J FISH DIS-

POPPE TT, 1985, P223, FISH SHELLFISH PATHO POURREAU CN, 1986, V12, P331, VET IMMUNOL IMMUNOP PRESS CM, 1994, V4, P79, FISH SHELLFISH IMMUN PRICE NC, 1990, V13, P49, J FISH DIS REILLY P, 1993, V3, P59, FISH SHELLFISH IMMUN RIJKERS GT, 1982, V2, P93, DEV COMP IMMUNOLOG S RILEY EM, 1993, V112, P271, AQUACULTURE ROBERTSEN B, 1990, V13, P391, J FISH DIS ROMBOUT JHWM, 1993, V17, P309, DEV COMP IMMUNOL ROMBOUT JHWM, 1993, V17, P55, DEV COMP IMMUNOL ROMBOUT JWHM, 1986, V10, P341, DEV COMP IMMUNOL RORSTAD G, 1993, V3, P179, FISH SHELLFISH IMMUN ROSJO C, 1993, V16, P87, J FISH DIS SAKAI M, 1993, V113, P11, AQUACULTURE SAKAI M, 1993, V16, P239, J FISH DIS SALTE R, 1992, V15, P215, J FISH DIS SANO M, 1992, V15, P283, J FISH DIS SECOMBES CJ, 1992, V2, P53, ANN REV FISH DIS SECOMBES CJ, 1988, P237, FISH VACCINATION SINGER JT, 1991, V13, P49, J MICROBIOL METH SMAIL DA, 1992, V15, P77, J FISH DIS SORENSEN UBS, 1986, V51, P593, APPL ENVIRON MICROB TATNER MF, 1984, V41, P193, AQUACULTURE TATNER MF, 1984, V1, P465, DEV COMP IMMUNOL TATNER MF, 1989, V13, P387, DEV COMP IMMUNOL TATNER MF, 1983, V22, P585, J FISH BIOL TATNER MF, 1991, V14, P395, J FISH DIS TATNER MF, 1993, P199, VACCINES VET APPLICA THIERY M, 1990, V23, P221, VET MICROBIOL THORBURN MA, 1987, V2, P167, DISEASE AQUAT ORG THORBURN MA, 1986, P311, 4TH P INT S VET EP E THORNBURN MA, 1988, V71, P285, AQUACULTURE THORNTON JC, 1991, V11, P85, MICROB PATHOGENESIS VALLEJO AN, 1992, V2, P73, ANN REV FISH DIS VALLEJO AN, 1993, V17, P229, DEV COMP IMMUNOL VAUGHAN LM, 1993, V61, P2172, INFECT IMMUN VELJI MI, 1991, V11, P79, DISEASE AQUAT ORG VIGNEULLE M, 1991, VII, P85, DISEASE AQUAT ORG WILLADSEN P, 1989, V143, P1346, J IMMUNOL WONG G, 1992, V21, P353, IMMUNOL INVEST ZAPATA AG, 1992, V13, P142, IMMUNOL TODAY ?logoff hold 06jul00 15:43:23 User228206 Session D1250.7 \$1.39 0.235 DialUnits File654 \$0.65 | Type(s) in Format | 3 \$0.65 1 Types \$2.04 Estimated cost File654 0.024 DialUnits File349 \$0.11 Estimated cost File349 0.024 DialUnits File348 \$0.11 \$0.11 Estimated cost File348 0.141 DialUnits File34 \$1.84 \$11.25 3 Type(s) in Format 9 \$11.25 3 Types \$13.09 Estimated cost File34 0.024 DialUnits File440 \$0.31 Estimated cost File440 \$0.31 OneSearch, 5 files, 0.447 DialUnits FileOS \$0.05 TYMNET Estimated cost this search \$15.71 \$15.71 Estimated total session cost 0.447 DialUnits

Status: Signed Off. (I minutes)

Status: Path 1 of [Dialog Information Services via Modem]

- - ENTER PASSWORD: ******* HHHHHHHH SSSSSSSS? *******

Status: Path 1 of [Dialog Information Services via Modem] ### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog) Trying 3106900061...Open DIALOG INFORMATION SERVICES PLEASE LOGON: ****** HHHHHHHH SSSSSSS? ### Status: Signing onto Dialog ENTER PASSWORD: ****** HHHHHHHH SSSSSSS? ****** Welcome to DIALOG ### Status: Connected Dialog level 00.06.30D Last logoff: 06jul00 12:11:43 Logon file405 06jul00 14:58:18 SYSTEM: HOME Menu System II: D2 version 1.7.8 term=ASCII *** DIALOG HOMEBASE(SM) Main Menu *** Information: 1. Announcements (new files, reloads, etc.) 2. Database, Rates, & Command Descriptions 3. Help in Choosing Databases for Your Topic 4. Customer Services (telephone assistance, training, seminars, etc.) 5. Product Descriptions Connections: 6. DIALOG(R) Document Delivery 7. Data Star(R) (c) 2000 The Dialog Corporation plc All rights reserved. /NOMENU = Command Mode /L = Logoff/H = HelpEnter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., Bl for ERIC). ?b 652 653 654 06jul00 14:58:30 User228206 Session D1250.1 0.168 DialUnits FileHomeBase \$0.00 \$0.00 Estimated cost FileHomeBase \$0.01 TYMNET \$0.01 Estimated cost this search \$0.01 Estimated total session cost 0.168 DialUnits SYSTEM: OS - DIALOG OneSearch File 652:US Patents Fulltext 1971-1979 (c) format only 2000 The Dialog Corp. *File 652: Reassignment data current through 12/06/1999 recordings. Due to recent processing problems, the SORT command is not working. File 653:US Pat.Fulltext 1980-1989 (c) format only 2000 The Dialog Corp. *File 653: Reassignment data current through 12/06/1999 recordings. Due to recent processing problems, the SORT command is not working.

File 654:US Pat.Full. 1990-2000/Jul.04

(c) format only 2000 The Dialog Corp.

*File 654: Reassignment data current through 12/06/1999 recordings. Due to recent processing problems, the SORT command is not working.

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Set Items Description
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             68 HELICOBACTER?/TI
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              0 PYLORIDIS/TI
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              0 PYLOR/TI
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          18589 MUTANT?
            576 AVIRULENT?
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            815 GUA
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                 OR RECA
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S2
       110957
            OR RECA
?s s1 and s2
            169
                 S1
          110957 S2
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            1038 TYPHI
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           (Item 1 from file: 654)
DIALOG(R) File 654:US Pat. Full.
(c) format only 2000 The Dialog Corp. All rts. reserv.
             03113767
Utility
PURIFIED VACUOLATING TOXIN FROM HELICOBACTER PYLORI AND METHODS TO USE
SAME
PATENT NO.: 6,054,132
            April 25, 2000 (20000425)
ISSUED:
INVENTOR(s): Cover, Timothy L., Nashville, TN (Tennessee), US (United
             States of America)
             Blaser, Martin J., Nashville, TN (Tennessee), US (United
             States of America)
ASSIGNEE(s): Vanderbilt University, (A U.S. Company or Corporation),
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Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: 8-284,747

FILED: August 02, 1994 (19940802)

This application is a continuation of application Ser. No. 07-841,644, filed Feb. 26, 1992, now abandoned.

FULL TEXT: 1192 lines

5/3/2 (Item 2 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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03110458

Utility

METHODS FOR PRODUCING ENHANCED ANTIGENIC HELICOBACTER SP.

PATENT NO.: 6,051,416

ISSUED: April 18, 2000 (20000418)

INVENTOR(s): Pace, John Lee, Germantown, MD (Maryland), US (United States

of America)

Walker, Richard Ives, Gaithersburg, MD (Maryland), US (United

States of America)

Frey, Steven Michael, Germantown, MD (Maryland), US (United

States of America)

ASSIGNEE(s): Antex Biologics Inc , (A U.S. Company or Corporation),

Gaithersburg, MD (Maryland), US (United States of America)

[Assignee Code(s): 36041]

APPL. NO.: 8-865,147

FILED: May 29, 1997 (19970529)

This application is a divisional of U.S. Ser. No. 08-538,544, filed Oct. 3, 1995, which is a continuation-in-part of U.S. Ser. No. 08-318,409, filed Oct. 5, 1994, now abandoned.

FULL TEXT: 2058 lines

5/3/3 (Item 3 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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03084757

Utility

GENES OF HELICOBACTER PYLORI NECESSARY FOR THE REGULATION AND MATURATION OF UREASE AND THEIR USE

PATENT NO.: 6,027,878

ISSUED: February 22, 2000 (20000222)

INVENTOR(s): Labigne, Agnes, Bures Sur Yvette, FR (France)

Cussac, Valerie, Paris, FR (France) Ferrero, Richard, Paris, FR (France)

ASSIGNEE(s): Inistitut National de la Sante et de la Recherche Medicale, (A

Non-U.S. Company or Corporation), FR (France)

Institut Pasteur, (A Non-U.S. Company or Corporation), FR

(France)

[Assignee Code(s): 42312]

APPL. NO.: 8-472,285

FILED: June 07, 1995 (19950607)

PRIORITY: 91-12198, FR (France), October 3, 1991 (19911003)

This is a Division of application Ser. No. 08-211,312 filed on Jul. 1, 1994, pending, which was filed as International Application No. PCT-FR92-00921 on Oct. 2, 1992.

FULL TEXT: 2182 lines

5/3/4 (Item 4 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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03068011

Utility

PURIFIED VACUOLATING TOXIN FROM HELICOBACTER PYLORI AND METHODS TO USE SAME

PATENT NO.: 6,013,463

ISSUED: January 11, 2000 (20000111)

INVENTOR(s): Cover, Timothy L., Nashville, TN (Tennessee), US (United

States of America)

Blaser, Martin J., Nashville, TN (Tennessee), US (United

States of America)

ASSIGNEE(s): Vanderbilt University, (A U.S. Company or Corporation),

Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: 8-473,265

FILED: June 07, 1995 (19950607)

This application is a division of application Ser. No. 08-284,747 filed on Aug. 2, 1994, status pending, which is a filewrapper continuation of Ser. No. 07-841,644, filed Feb. 26, 1992, now abandoned.

FULL TEXT: 1103 lines

5/3/5 (Item 5 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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03058570

Utility

TREATMENT AND PREVENTION OF HELICOBACTER INFECTION

PATENT NO.: 6,005,090

ISSUED: December 21, 1999 (19991221)

INVENTOR(s): Doidge, Christopher V., Vincent, AU (Australia)

Lee, Adrian, Lane Cove, AU (Australia) Radcliff, Flona J., Sydney, AU (Australia) Hazell, Stuart L., Glenfield, AU (Australia)

ASSIGNEE(s): CSL Limited, (A Non-U.S. Company or Corporation), Victoria, AU

(Australia)

The University of New South Wales, (A Non-U.S. Company or

Corporation), Kensington, AU (Australia)

[Assignee Code(s): 40730]

APPL. NO.: 8-695,987

FILED: August 15, 1996 (19960815)

PRIORITY: PM-6124, AU (Australia), June 8, 1994 (19940608)

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part of International Patent Application No. PCT-AU95-00335, dated Jun. 8, 1995, and designating the United States of America, the disclosure of which is incorporated herein by reference.

FULL TEXT: 1410 lines

5/3/6 (Item 6 from file: 654)

DIALOG(R) File 654:US Pat. Full.

(c) format only 2000 The Dialog Corp. All rts. reserv.

Utility

VACCINES COMPRISING ENHANCED ANTIGENIC HELICOBACTER SPP.

PATENT NO.: 5,897,475

ISSUED: April 27, 1999 (19990427)

INVENTOR(s): Pace, John Lee, Germantown, MD (Maryland), US (United States

of America)

Walker, Richard Ives, Gaithersburg, MD (Maryland), US (United

States of America)

Frey, Steven Michael, Germantown, MD (Maryland), US (United

States of America)

ASSIGNEE(s): Antex Biologics, Inc , (A U.S. Company or Corporation),

Gaithersburg, MD (Maryland), US (United States of America)

[Assignee Code(s): 36041]

APPL. NO.: 8-538,544

FILED: October 03, 1995 (19951003)

This application is a continuation-in-part of application Ser. No. 08-318,409, filed Oct. 5, 1994, now abandoned.

FULL TEXT: 2023 lines

5/3/7 (Item 7 from file: 654)

DIALOG(R) File 654:US Pat. Full.

(c) format only 2000 The Dialog Corp. All rts. reserv.

02918847

Utility

HELICOBACTER TAGA GENE FUSION PROTEIN

PATENT NO.: 5,876,943

ISSUED: March 02, 1999 (19990302)

INVENTOR(s): Cover, Timothy L., Nashville, TN (Tennessee), US (United

States of America)

Blaser, Martin J., Nashville, TN (Tennessee), US (United

States of America)

Kleanthous, Harry, Cambridge, MA (Massachusettes), US (United

States of America)

Tummuru, Murali K. R., Nashville, TN (Tennessee), US (United

States of America)

ASSIGNEE(s): Vanderbilt University, (A U.S. Company or Corporation),

Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: -34,306

FILED: March 02, 1998 (19980302)

This application is a continuation of, and claims the benefit of, application Ser. No. 08-316,397, filed Sep. 30, 1994, now U.S. Pat. No. 5,733,340 which is a Continuation-in-Part of Ser. No. 08-053,614, filed Apr. 26, 1993, now U.S. Pat. No. 5,403,924, issued Apr. 4, 1995, which is a Continuation-in-Part of Ser. No. 07-959,940, filed Sep. 13, 1992, now abandoned, which applications are hereby incorporated herein by reference.

FULL TEXT: 2698 lines

5/3/8 (Item 8 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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02899005

Utility

PURIFIED VACUOLATING TOXIN FROM HELICOBACTER PYLORI AND METHODS TO USE

[Isolated nucleotide sequences used for detection of infection as primers for amplification and probes for hybridization; antiulcer agents; anticancer agents]

PATENT NO.: 5,859,219

ISSUED: January 12, 1999 (19990112)

INVENTOR(s): Cover, Timothy L., Nashville, TN (Tennessee), US (United

States of America)

Blaser, Martin J., Nashville, TN (Tennessee), US (United

States of America)

ASSIGNEE(s): Vanderbilt University, (A U.S. Company or Corporation),

Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: 8-295,643

FILED: October 27, 1994 (19941027)
PCT: PCT-US93-01558 (WO 93US1558)

Section 371 Date: October 27, 1994 (19941027) Section 102(e) Date: October 27, 1994 (19941027)

Filing Date: February 24, 1993 (19930224)
Publication Number: WO93-16723 (WO 9316723)
Publication Date: September 02, 1993 (19930902)

This application is a 371 of PCT-US93-01558, which is a continuation-in-part of U.S. Ser. No. 841,644 filed Feb. 26, 1992 now abandoned.

FULL TEXT: 1575 lines

5/3/9 (Item 9 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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02881348

Utility

IMMUNOGENIC COMPOSITIONS AGAINST HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID POLYPEPTIDES

PATENT NO.: 5,843,460

ISSUED: December 01, 1998 (19981201)

Ferrero, Richard L., Paris, FR (France)
Thiberge, Jean-Michel, Plaisir, FR (France)

ASSIGNEE(s): Institut National de la Sante et de la Recherche Medicale, (A

Non-U.S. Company or Corporation), Paris, FR (France)

Institut Pasteur, (A Non-U.S. Company or Corporation), Paris,

FR (France)

[Assignee Code(s): 42312; 42342]

APPL. NO.: 8-467,822

FILED: June 06, 1995 (19950606)

PRIORITY: 93-401-309, EP (European Patent Office), May 19, 1993

(19930519)

PCT-EP93-03259, WO (World Intellectual Property Org), November

19, 1993 (19931119)

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of application Ser. No. 08-447,177 filed May 19, 1995, which is a continuation-in-part of application Ser. No. 08-432,697, filed May 2, 1995, which is a continuation-in-part of International Application PCT-EP94-01625, filed 19 May 1994, which is based on International Application PCT-EP93-03259, filed 19 Nov. 1993, and European Application No. 93 401 309.5, filed 19 May 1993. Applicants claim the benefits of the International filing dates and priority of the European filing date. The entire disclosure of each of these applications is relied upon and incorporated by reference herein.

FULL TEXT: 4254 lines

5/3/10 (Item 10 from file: 654)

DIALOG(R) File 654:US Pat.Full.

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02835456

Utility

HELICOBACTER AMINOACYL-TRNA SYNTHETASE PROTEINS, NUCLEIC ACIDS AND . STRAINS COMPRISING SAME

PATENT NO.: 5,801,013

ISSUED: September 01, 1998 (19980901)

INVENTOR(s): Tao, Jianshi, Needham, MA (Massachusettes), US (United States

of America)

Qiu, Yan, Brookline, MA (Massachusettes), US (United States of

America)

Houman, Fariba, Belmont, MA (Massachusettes), US (United

States of America)

Shen, Xiaoyu, S. Boston, MA (Massachusettes), US (United

States of America)

Schimmel, Paul R., Cambridge, MA (Massachusettes), US (United

States of America)

ASSIGNEE(s): Cubist Pharmaceuticals, Inc , (A U.S. Company or Corporation),

Cambridge, MA (Massachusetts), US (United States of America)

[Assignee Code(s): 41839]

APPL. NO.: 8-451,715

FILED: May 26, 1995 (19950526)

FULL TEXT: 5429 lines

5/3/11 (Item 11 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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02750681

Utility

VACUOLATING TOXIN-DEFICIENT H. PYLORI [Genetically altered mutant strain]

PATENT NO.: 5,721,349

ISSUED: February 24, 1998 (19980224)

INVENTOR(s): Cover, Timothy L., Nashville, TN (Tennessee), US (United

States of America)

Blaser, Martin J., Nashville, TN (Tennessee), US (United

States of America)

ASSIGNEE(s): Vanderbilt University, (A U.S. Company or Corporation),

Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: 8-200,232

FILED: February 23, 1994 (19940223)

RELATED APPLICATION

This application is a continuation-in-part application of U.S. application Ser. No. 07-841,644, filed Feb. 26, 1992 now abandoned.

GOVERNMENT ACKNOWLEDGMENT

This work was supported in part by R29 DK45293-02 from the National Institutes of Health, the Medical Research Service of the Department of Veterans Affairs, and R01 CA58834 from the National Cancer Institute. The government has certain rights in the invention.

FULL TEXT: 1711 lines

5/3/12 (Item 12 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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02730038

Utility

NUCLEIC ACID ENCODING HELICOBACTER PYLORI ENOLASE [Hybrids]

PATENT NO.: 5,703,219

ISSUED: December 30, 1997 (19971230)

INVENTOR(s): Thompson, Stuart A., Joelton, TN (Tennessee), US (United

States of America)

Blaser, Martin J., Nashville, TN (Tennessee), US (United

States of America)

ASSIGNEE(s): Vanderbilt University, (A U.S. Company or Corporation),

Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: 8-446,920

FILED: May 22, 1995 (19950522)

This is a continuation-in-part of application Ser. No. 08-215,928, filed: Mar. 21, 1994 issued as U.S. Pat. No. 5,434,253 on Jul. 18, 1995.

This work was supported by National Institutes of Health grant R01CA58834. The government has certain rights in the invention.

FULL TEXT: 1567 lines

5/3/13 (Item 13 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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02550206

Utility

ORAL TREATMENT OF HELICOBACTER INFECTION

[Bactericides and vaccines]

PATENT NO.: 5,538,729

ISSUED: July 23, 1996 (19960723)

INVENTOR(s): Czinn, Steven J., Cleveland, OH (Ohio), US (United States of

America)

Nedrud, John G., Cleveland, OH (Ohio), US (United States of

America)

ASSIGNEE(s): OraVax, Inc, (A U.S. Company or Corporation), Cambridge, MA

(Massachusetts), US (United States of America)

[Assignee Code(s): 39199]

APPL. NO.: 8-293,565

FILED: August 22, 1994 (19940822)

This is a continuation of application Ser. No. 08-072,162, filed Jun. 3, 1993, now abandoned, which is a continuation of application Ser. No.

07-868,286, filed Apr. 13, 1992, abandoned.

FULL TEXT: 789 lines

5/3/14 (Item 14 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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02538069

Utility

CAGB AND CAGC GENES OF **HELICOBACTER PYLORI** AND RELATED COMPOSITIONS [Polypeptide; peptic ulcers]

PATENT NO.: 5,527,678

ISSUED: June 18, 1996 (19960618)

INVENTOR(s): Blaser, Martin J., Nashville, TN (Tennessee), US (United

States of America)

Tummuru, Murali K. R., Nashville, TN (Tennessee), US (United

States of America)

Sharma, Smita A., Nashville, TN (Tennessee), US (United States

of America)

ASSIGNEE(s): Vanderbilt University, (A U.S. Company or Corporation),

Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: 8-327,494

FILED: October 21, 1994 (19941021)

This invention was made with government support under Grant No. ROICA 58834, awarded by the National Institutes of Health. The Government has certain rights in the invention.

FULL TEXT:

1906 lines

5/3/15 (Item 15 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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02434333

Utility

DNA ENCODING HELICOBACTER PYLORI RECOMBINASE

[Gastritis vaccines]

PATENT NO.: 5,434,253

ISSUED: July 18, 1995 (19950718)

INVENTOR(s): Thompson, Stuart A., Joelton, TN (Tennessee), US (United)

States of America)

Blaser, Martin J., Nashville, TN (Tennessee), US (United

States of America)

ASSIGNEE(s): Vanderbilt University, (A U.S. Company or Corporation),

Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: 8-215,928

FILED: March 21, 1994 (19940321)

This invention was made with government support under Grant No. CA 58834, awarded by the National Institutes of Health. The Government has certain rights in the invention.

FULL TEXT:

850 lines

?logoff hold

06jul00 14:59:59 User228206 Session D1250.2

\$0.85 0.144 DialUnits File652

\$0.85 Estimated cost File652

\$1.17 0.198 DialUnits File653

\$1.17 Estimated cost File653

\$3.09 0.524 DialUnits File654

\$9.75 15 Type(s) in Format 3

\$9.75 15 Types

\$12.84 Estimated cost File654

OneSearch, 3 files, 0.866 DialUnits FileOS

\$0.10 TYMNET

\$14.96 Estimated cost this search

\$14.97 Estimated total session cost 1.034 DialUnits

Status: Signed Off. (2 minutes)

Status: Path 1 of [Dialog Information Services via Modem]

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Trying 3106900061...Open
DIALOG INFORMATION SERVICES
PLEASE LOGON:
 ****** HHHHHHH SSSSSSS?
 ### Status: Signing onto Dialog
ENTER PASSWORD:
 ******* HHHHHHH SSSSSSS?r090jjvh *******
Welcome to DIALOG
### Status: Connected
Dialog level 00.06.30D
Reconnected in file OS 06jul00 15:02:19
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Due to recent processing problems, the SORT command is not working.
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             LORIS OR PYLOR)/TI
S2
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            OR RECA
           57
S3
               S1 AND S2
S 4
                S3 AND (HELICOBACTER? OR PYLROI OR PYLOR OR PYLORIDIS OR P-
             YLORIS OR PYLORI)
               S4 AND (SALMONELLA? OR TYPHI OR TYPHIMURIUM?)
?s s5 and (therapeu? or therapy? or prevent? or vaccin? or immuniz?)
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           53507 THERAPY?
         1317854 PREVENT?
           13409
                 VACCIN?
           14540 IMMUNIZ?
      S6
             15 S5 AND (THERAPEU? OR THERAPY? OR PREVENT? OR VACCIN? OR
                  IMMUNIZ?)
?t s6/kwic/all
              (Item 1 from file: 654)
DIALOG(R) File 654:(c) format only 2000 The Dialog Corp. All rts. reserv.
PURIFIED VACUOLATING TOXIN FROM HELICOBACTER
                                               PYLORI AND METHODS TO USE
SAME
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OTHER REFERENCES

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Dagmar E...

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. . .

ABSTRACT

This invention relates to a purified **Helicobacter pylori** vacuolating toxin and methods to use this toxin to produce protective antibodies against H. **pylori** infection. Antiserum to this antigen can be used to detect the toxin. Methods to detect...

... a patient to develop peptic ulcer disease, gastric carcinoma, or other clinical consequences of H. **pylori** infection.
BRIEF DESCRIPTION OF THE DRAWINGS

FIGS. 1A-B show column chromatography of H. pylori vacuolating toxin.

Column eluates were monitored for absorbance at 280 nm (solid lines), and salt...

...of NaCl.

- FIG. 2 shows sodium dodecyl sulfate-polyacrylamide gel electrophoresis (12: acrylamide) of H. **pylori** toxin (CB antigen) under denaturing, reducing conditions. Lanes are: a, proteins precipitated from a broth culture supernatant of H. **pylori** 60190 by a 50* saturated solution of ammonium sulfate; b, toxin partially purified by hydrophobic...
- ... 000 protein band by immune rabbit serum. Proteins precipitated from the broth culture of H. pylori 60190 by a 50- saturated solution of ammonium sulfate were electrophoresed on a 10- acrylamide...
- ... a, preimmune serum. Lane b, antiserum produced against the purified denatured Mr=87,000 H. **pylori** protein subunit. The antiserum recognized only the Mr=87,000 band.
- FIG. 4 shows neutralization of H. **pylori** vacuolating toxin activity by antiserum raised against the purified denatured Mr=87,000 protein subunit. Preimmune serum and antiserum raised against the purified Mr=87,000 H. **pylori** protein subunit were tested for toxin-...neutralizing activity. The neutral red uptake induced by crude concentrated broth culture supernatant from H. **pylori** 60190 is indicated by the dashed line. At a dilution of 1:64, the antiserum...
- ...failed to neutralize toxin activity.
- FIG. 5 shows detection of the vacuolating toxin in H. **pylori** supernatants. Concentrated culture supernatants from 8 tox sup + H. **pylori** strains and 8 tox sup strains were diluted 1:100 in carbonate buffer and tested...
- \dots 046 +- 0.01, p<0.0001).
- FIG. 6 shows serologic recognition of the purified H. pylori toxin (CB antigen) by human sera. Sera from twenty H. pylori -infected persons and 20 uninfected persons were diluted 1:100 and tested in an ELISA for IgG reactivity with the purified CB antigen (15 ng/microtiter well). Sera from H. pylori -infected persons recognized the purified toxin significantly better than sera from uninfected persons (mean optical... BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention relates to a purified Helicobacter pylori vacuolating toxin, methods to use the purified toxin in diagnostic testing for the predisposition to peptic ulceration and gastric malignancy, and methods to use the purified toxin as a vaccine for providing immunologic protection against H. pylori infection.

2. Brief Description of the Background Art

Helicobacter pylori is a curved Gram-negative bacterium that is
commonly present in the human stomach; once...

... 1990) J. Infect. Dis. 161:626-633). Multiple lines of evidence now indicate that H. ${\bf pylori}$ infect

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                  PYLORI/TI
               Ω
                 PYLORIDIS/TI
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             169 (SALMONELLA? OR HELICOBACTER? OR PYLORI OR PYLORIDIS OR
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?s s4 and (salmonella? or typhi or typhimurium?)
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     S5
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5/3/1
           (Item 1 from file: 654)
DIALOG(R) File 654:US Pat. Full.
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YSTEM:OS - DIALOG OneSearch

Utility

PURIFIED VACUOLATING TOXIN FROM HELICOBACTER PYLORI AND METHODS TO USE SAME

PATENT NO.: 6,054,132

ISSUED: April 25, 2000 (20000425)

INVENTOR(s): Cover, Timothy L., Nashville, TN (Tennessee), US (United

States of America)

Blaser, Martin J., Nashville, TN (Tennessee), US (United

States of America)

 ${\tt ASSIGNEE(s): Vanderbilt University, \ (A \ U.S. \ Company \ or \ Corporation),}$

Nashville, TN (Tennessee), US (United States of America)

[Assignee Code(s): 88418]

APPL. NO.: 8-284,747

FILED: August 02, 1994 (19940802)

This application is a continuation of

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            LORIS OR PYLOR)/TI
S2
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            OR RECA
          57 S1 AND S2
S3
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S5
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DIALOG(R) File 654: (c) format only 2000 The Dialog Corp. All rts. reserv.
PURIFIED VACUOLATING TOXIN FROM HELICOBACTER PYLORI AND METHODS TO USE
SAME
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OTHER REFERENCES

...al, Infection & Immun., Mar. 1990, vol. 58, No

YSTEM:OS - DIALOG OneSearch

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  File 348: European Patents 1978-2000/Jun W03
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*File 348: ** NEW FEATURE ** English language translations of French
and German abstracts now searchable. See HELP NEWS 348 for info.
  File 34:SciSearch(R) Cited Ref Sci 1990-2000/Jul W1
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  File 440:Current Contents Search(R) 1990-2000/Jul W3
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             894 PYLORIDIS
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      S1
                  PYLORIS OR HPYLORI)
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DIALOG(R) File 654:(c) format only 2000 The Dialog Corp. All rts. reserv.
03050937
METHOD OF MAKING NON-PYROGENIC LIPOPOLYSACCHARIDE OR A
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FULL TEXT:
...can be employed in the present invention include P. aeruginosa (ATCC No.
23267 .
  The particular Helicobacter strain employed is not critical to the
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present invention. Examples of Helicobacter strains which can be employed in the present invention include H. pylori (ATCC No. 43504), H. mustelae (ATCC No. 43772).

The particular Salmonella ... 6994). S. typhi aroC, aroD (Hone et al, Vacc., 9:810-816 (1991)), S. typhimurium aroA mutant (Mastroeni et al, Micro. Pathol., 13:477-491 (1992)).

The particular Vibrio strain employed...

(Item 2 from file: 654) DIALOG(R) File 654:(c) format only 2000 The Dialog Corp. All rts. reserv. METHOD FOR INTRODUCING AND EXPRESSING GENES IN ANIMAL CELES AND LIVE INVASIVE BACTERIAL VECTORS FOR USE IN THE SAME FULL TEXT: 1513 lines

(Item 1 from file: 34) DIALOG(R) File 34: SciSearch(R) Cited Ref Sci (c) 2000 Inst for Sci Info. All rts. reserv. 05290777 Genuine Article#: VN238 Number of References: 49 Title: CLONING, SEQUENCING, EXPRESSION, PURIFICATION AND PRELIMINARY CHARACTERIZATION OF A TYPE-II DEHYDROQUINASE FROM HELICOBACTER-PYLORI Author(s): BOTTOMLEY JR; CLAYTON CL; CHALK PA; KLEANTHOUS C Corporate Source: UNIV E ANGLIA, SCH BIOL SCI/NORWICH NR4 7TJ/NORFOLK/ENGLAND/; UNIV E ANGLIA, SCH BIOL SCI/NORWICH NR4 7TJ/NORFOLK/ENGLAND/; GLAXO WELLCOME RES & DEV LTD, MED RES CTR/STEVENAGE SG1 2NY/HERTS/ENGLAND/ Journal: BIOCHEMICAL JOURNAL, 1996, V319, OCT (OCT 15), P559-565 ISSN: 0264-6021 Language: ENGLISH Document Type: ARTICLE Geographic Location: ENGLAND Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY Abstract: A heat-stable dehydroquinase was purified to near homogeneity from a plate-grown suspension of the Gram-negative stomach pathogen Helicobacter pylori, and shown from both its subunit and native molecular masses to be a member of the type II family of dehydroquinases. This was confirmed by N-terminal amino acid sequence data. The gene encoding this activity was isolated following initial identification, by random sequencing of the H. pylori genome, of a 96 bp fragment, the translated sequence of which showed strong identity to a C-terminal region of other type II enzymes. Southern blot analysis of a cosmid library identified several potential clones, one of which complemented an Escherichia coli aroD point mutant strain deficient in host dehydroquinase. The gene encoding the H. pylori type II dehydroquinase (designated aroQ) was sequenced. The translated sequence was identical to the N-terminal sequence obtained directly from the purified protein, and showed strong identity to other members of the type II family of dehydroquinases. The enzyme was readily expressed in E. coli from a plasmid construct from which several milligrams of protein could be isolated, and the molecular mass of the protein was confirmed by electrospray MS. The aroQ gene in H. pylori may function in the central biosynthetic shikimate pathway of this bacterium, thus opening the way for the construction of attenuated strains as potential vaccines as well as offering a new target for selective enzyme inhibition. Identifiers -- KeyWords Plus: AMINO-ACID BIOSYNTHESIS; ESCHERICHIA-COLI; ASPERGILLUS-NIDULANS; SHIKIMATE PATHWAY; SALMONELLA-TYPHI; ACTIVE-SITE; CAMPYLOBACTER-PYLORI; NUCLEOTIDE-SEQUENCE; NEUROSPORA-CRASSA; MOLECULAR-CLONING Research Fronts: 94-1492 001 (HELICOBACTER -PYLORI INFECTION; IMPLICATIONS FOR ULCER THERAPY; ACID-PEPTIC DISEASE) 94-6345 001 (ESCHERICHIA-COLI RNA-POLYMERASE; LACUV5 PROMOTER; TRANSCRIPTION INITIATION; EXPRESSION ANALYSIS) (LIVE ATTENUATED AROA SALMONELLA VACCINE; INVASION OF EPITHELIAL-CELLS; VIRULENCE PHENOTYPE; STARVATION SURVIVAL GENES; DEFINED OMPR MUTANTS) Cited References: BENSING BA, 1993, V175, P7421, J BACTERIOL BENTLEY R, 1990, V25, P307, CRIT REV BIOCHEM MOL BONNER CA, 1994, V302, P11, BIOCHEM J BOTTOMLEY JR, 1996, V319, P269, BIOCHEM J BOTTOMLEY JR, 1995, THESIS U E ANGLIA NO CHARLES IG, 1986, V14, P2201, NUCLEIC ACIDS RES

CHAUDHURI S, 1991, V275, P1, BIOCHEM J CLAYTON CL, 1993, P143, HELICOBACTER PYLORI CLAYTON CL, 1989, V57, P623, INFECT IMMUN DASILVA AJF, 1986, V240, P481, BIOCHEM J DEKA RK, 1994, V349, P397, FEBS LETT 1/9/106 (Item 2 from file: 65)
DIALOG(R)File 65:Inside Conferences
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Tille

Oral immunization of mice with live attenuated S. typhimurium expressing H. pylori urease
Fulginiti, J.; Zhu, D.; Schmidt, S.; Weidenborner, P.
CONFERENCE: Molecular approaches to the control of infectious diseases—Meeting
ABSTRACTS OF PAPERS PRESENTED AT THE MEETING ON MOLECULAR APPROACHES TO THE CONTROL OF INFECTIOUS DISEASES, 1995 P: 27
Cold Spring Harbor Laboratory, 1995
LANGUAGE: English DOCUMENT TYPE: Conference Abstracts and program
CONFERENCE SPONSOR: Cold Spring Harbor Laboratory
CONFERENCE LOCATION: Cold Spring Harbor, NY
CONFERENCE DATE: Sep 1995 (199509) (199509)

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DESCRIPTORS: molecular approaches; infectious diseases; CSH